

FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION

36.1 Magnetic Flux

The number of magnetic lines of force passing normally through certain area is called magnetic flux. It is denoted by Φ_B . It is a scalar quantity and its SI unit is weber (Wb). It is measured by the product of magnetic field strength and the component of vector area parallel to magnetic field.

If $d\mathbf{A}$ is the vector area element of the surface placed in uniform magnetic field of magnetic field strength $\mathbf{B}$ as shown in the figure below.

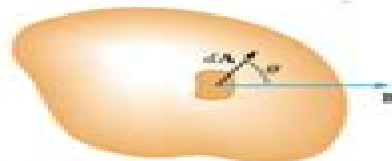
The magnetic flux, $d\Phi_B$ through $d\mathbf{A}$ is given by:

$$d\Phi_B = \mathbf{B} \cdot d\mathbf{A}$$

$$\Phi_B = \int \mathbf{B} \cdot d\mathbf{A}$$

$$\Phi_B = \int B \, dA \cos \theta$$

where θ is the angle between magnetic field strength and vector area element.



36.2 Faraday's Law of Electromagnetic Induction

Statement:

The induced emf in a circuit is equal to the negative of rate at which the magnetic flux through the circuit is changing with time.

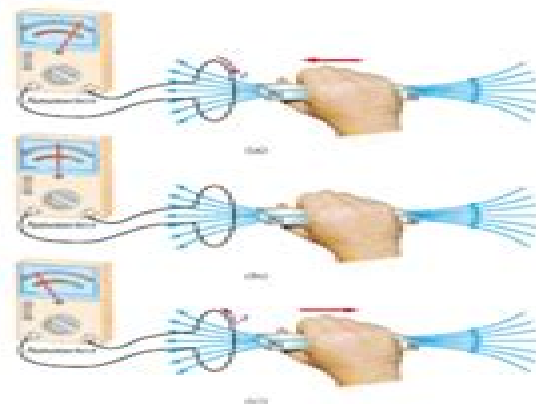
Or

The magnitude of induced emf in a circuit is directly proportional to the rate of change of magnetic flux.

Explanation

When a magnet is moved toward the loop, the ammeter needle deflects in one direction, as shown in the figure (a). When the magnet is brought to rest and held stationary relative to the loop figure (b), no deflection is observed. When the magnet is moved away from the loop, the needle deflects in the opposite direction, as shown in figure (c). Finally, if the magnet is held stationary and the loop is moved either toward or away from it, the needle deflects. From these observations, we conclude that the loop detects that the magnet is moving relative to it and we relate this detection to a change in magnetic field. Thus, it seems that a relationship exists between current and changing magnetic field.

These results are quite remarkable in view of the fact that a current is set up even though no batteries are present in the circuit. We call such a current the induced current which is produced by an induced emf. This phenomenon is called electromagnetic induction.



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web russland besitzt circa 241 t 90 und rund ein dutzend t 90a panzer letzterer wird für die russische armee in geringen stückzahlen produziert auch die luftwaffe wird mit modernisierten abfangjägern mig 31bm su 27sm neuen jagdbombern su 34 und modernisierten erdkampfflugzeugen su 25sm ausgerüstet die zuführung an neuem

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web feb 25 2022 die russische armee kann derzeit auf die folgenden panzerplattformen und familien zurückgreifen t 55 mehr als 2000 t 62 2000 t 64 2000 t 72 10000 t 80 7000 t 90 knapp 1000

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